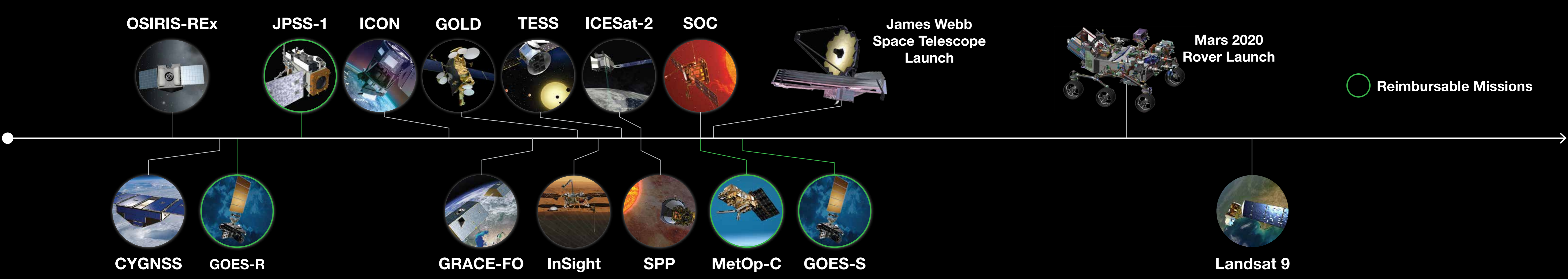




Aeronautics



Science Mission Launches



CYGNSS

GOES-R

GRACE-FO

InSight

SPP

MetOp-C

GOES-S

Landsat 9

CYGNSS

GOES-R

GRACE-FO

InSight

SPP

MetOp-C

GOES-S

Landsat 9

CubeSat Launch Initiative (CSLI) Ongoing through 2021 and Beyond

Science Instrument Deliveries to ISS Through 2021*

Cold Atom Lab (CAL)	Educational Launch of Nanosatellites (ELaNa)	Life Sciences Glovebox	Orbiting Carbon Observatory (OCO-3)
Cosmic Ray Energetics and Mass (CREAM)	GeneLab Phase 2 and 3	Multiple User System for Earth Sensing Facility (MUSES)	Stratospheric Aerosol and Gas Experiment (SAGE-III)
ECOSystem Spaceborne Thermal Radiometer Experiment on Space Station (ECOTRESS)	Global Ecosystem Dynamics Investigation (GEDI)	Neutron Star Interior Composition Explorer (NICER)	Total and Spectral Solar Irradiance Sensor (TSIS-1)

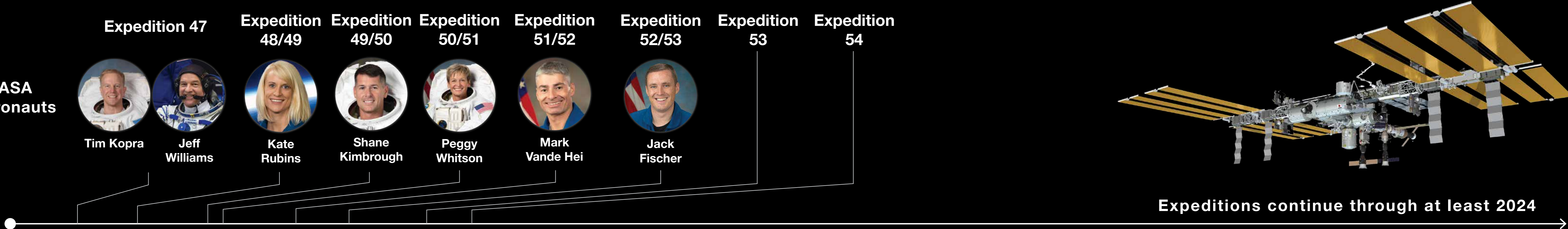
Capability Upgrades and Technology Demonstrations Aboard ISS*

Bigelow Expandable Activity Module (BEAM)	Exploration Medical Devices	Roll-Out Solar Array (ROSA)	Universal Waste Management System (UWMS)
Exploration ECLSS Systems	International Docking Adapter (IDA)	Spacecraft Fire Experiment (SAFFIRE)	Zero Boil Off Tank (ZBOT)
Exploration Exercise Devices	Refabricator	Station Explorer for X-ray Timing and Navigation Technology (SEXTANT)	

* programs listed here include items funded by AES, SLPSRA, HRP, STMD, and SMD

Commercial Cargo Resupply Missions to ISS Ongoing Through at Least 2024

International Space Station (ISS)



Tim Kopra

Jeff Williams

Kate Rubins

Shane Kimbrough

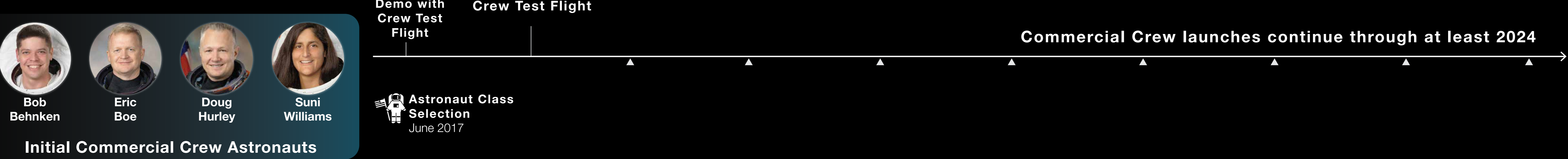
Peggy Whitson

Mark Vande Hei

Jack Fischer

Expeditions continue through at least 2024

Commercial Crew Program (CCP)



Bob Behnken

Eric Boe

Doug Hurley

Suni Williams

Advanced Exploration Systems (AES) for Habitation and Propulsion



SLS

EGS

SLS

SLS

EM-1 LAUNCH

SLS Qual Motor-2 (QM-2) Booster Qualification Test

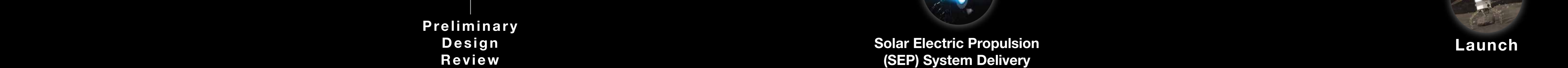
EGS Vehicle Assembly Building (VAB) Ready for Verification/Validation Testing

SLS SLS Interim Cryo Propulsion Stage Complete

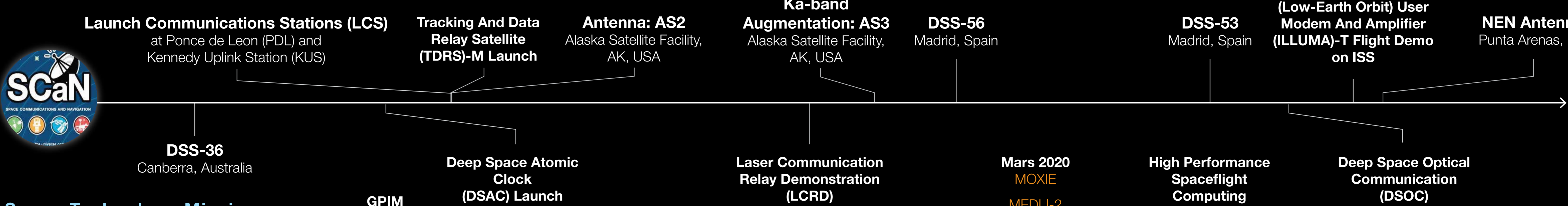
SLS SLS Core Stage Delivered to Stennis Space Center (SSC) for Green Run Testing

EM-1 LAUNCH

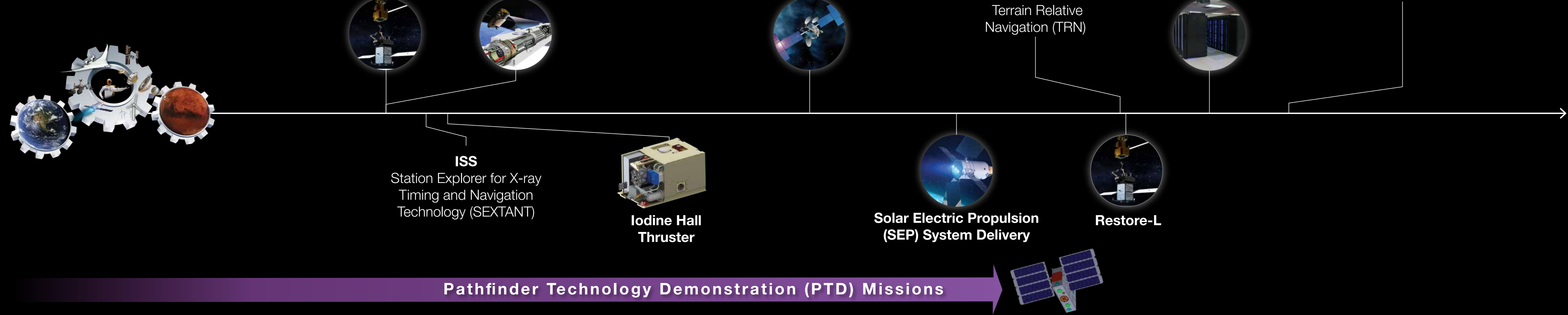
Asteroid Redirect Robotic Mission (ARRM)



Space Communications and Navigation (SCaN)



Space Technology Missions



GPIM

ISS Station Explorer for X-ray Timing and Navigation Technology (SEXTANT)

Iodine Hall Thruster

Solar Electric Propulsion (SEP) System Delivery

Restore-L

Pathfinder Technology Demonstration (PTD) Missions

